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DECLASS REVIEW by NIMA/DOD

GMD/PAG/M-58-65
30 March 1965

MEMORANDUM FOR: NSA/TCO

ATTENTION: [redacted]

THROUGH:

25X1A

SUBJECT: Chinese Shipyards and Port Facilities

REFERENCE: Requirement No. [redacted], NPIC Project No. 12037-64 (Partial answer)

In response to the referenced requirement, the attachment material is forwarded herewith:

Pre-release of Detailed Photographic Interpretation Report "Lu-Ta, Ta-Lien (Dairen) Shipyard".

[redacted]

25X1A

Assistant for Photographic Analysis, NPIC

Attachment:
As stated above

Distribution:
Orig & 1 - NSA/TCO w/att
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1 - DIAXX-3C w/att

[redacted]

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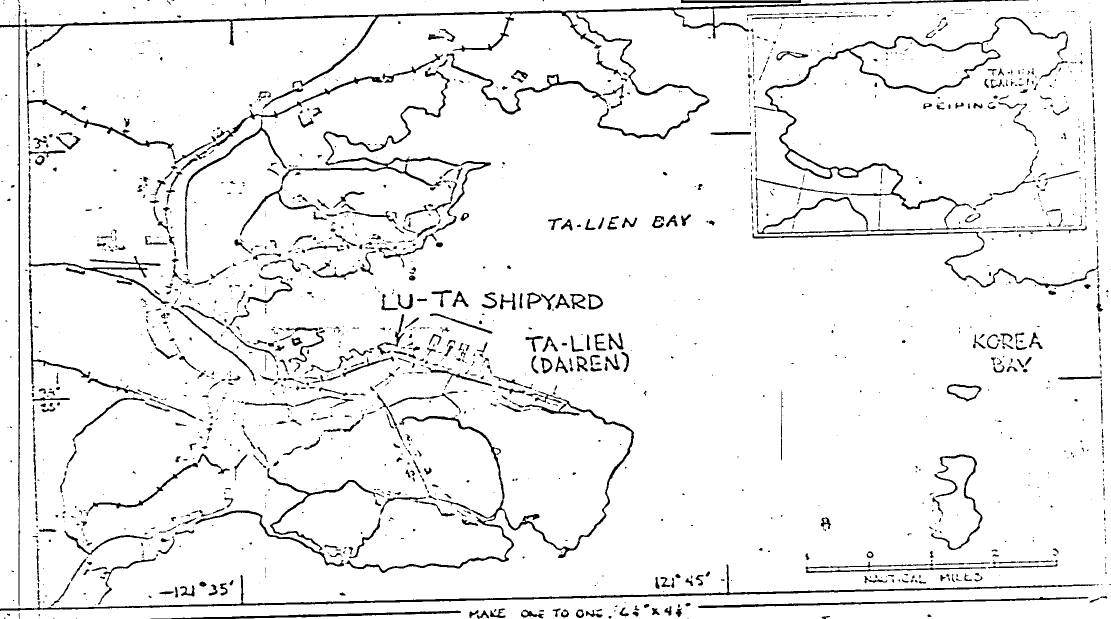
Attachment to CMD/PAC/M-58-65
dated 30 March 1965

[redacted] SECRET [redacted]



MAKE ONE TO ONE 7.4" x 4.8"

FIGURE 1
FIGURE 1 OF 2
PROJECT : 12037 D/64

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[redacted] SECRET [redacted]

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[redacted]

Lu-Ta Shipyard

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The Lu-Ta, Ta-Lien (Dairen) Shipyard, [redacted] is located in the Lu-Ta, China Complex of the south shore of Lu-Ta Bay at the northeast outskirts of Ta-Lien (Dairen) at 38-55-58N 121-38-20E.

Lu-Ta Shipyard is road and rail served and secured by a high, continuous, probably masonry wall. The shipyard derives its electrical energy from a thermal electric plant located immediately south-southwest of the shipyard. This shipyard, which is functionally integrated and operational, contains the following facilities: 4 building ways, 2 graving docks, 1 L-Head pier, 8 piers, and numerous quayed areas for the fitting out of vessels.

Vessels are end launched from 3 of the building ways (Items C2-C4) and crane launched from the 4th building way (Item C1).

This shipyard contains all of the facilities necessary to the shipbuilding industry, from engineering admin to final assembly of the vessels. Each building and its function is listed in Table 1.

The major construction activity noted during the period of coverage was that of a G-Class SSB submarine on building way B3. A possible submarine was observed in an early stage of construction in [redacted] and a G-Class SSB was observed in an advanced stage of construction in [redacted] Other vessels and their locations are specified in Table 2.

25X1D [redacted] reveals minor changes in construction, razing and renovation of facilities. Photography of [redacted]
25X1D [redacted] reveals the addition of one probable tower jib crane on craneway F1.
25X1D Photography of [redacted] reveals the removal of one tower hammerhead crane and the addition of one tower jib crane on craneway F3.

Table 1 Shipyard Facilities

Area Location	Bldg No	Function	Dimension	Roof-type/ Remark
	1	Administration (Irregular shaped)	260 x 50 95 x 50 95 x 50	Gabled and Flat
	2	Storage	260 x 50	Gabled
	3	Forge/Foundry	[redacted]	Gabled Monitor
	4	Forge/Foundry	235 x 50 95 x 70	Gabled with Skylites
	5	Forge/Foundry	255 x 105	Flat Monitor

[redacted]

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Area Location	Bldg No	Function	Dimension	Roof-type Remarks
	6	Storage	260 x 50	Cabled
	7	Prob. Machine Shop	375 x 105	Flat Monitor and Cables
			190 x 145	
	8	Storage	150 x 70	Cabled
			150 x 30	
	9	Storage	550 x 90	Cable over Flat
	10	Storage	150 x 95	Triple Cabled
	11	Prob. Maintenance/Workshop	100 x 100	Twin Cabled with Skylites
	12	Prob. Maintenance/Workshop	150 x 95	Twin Cabled
	13	Prob. Maintenance/Workshop	165 x 70	Twin Cabled
	14	Prob. Maintenance/Workshop	280 x 70	Cabled Monitor
	15	Storage	290 x 50	Cabled
	16	Prob. Maintenance/Workshop	150 x 50	Flat
	17	Prob. Maintenance/Workshop	150 x 50	Flat
	18	Prob. Steam Plant	260 x 70	Flat and Cabled with Skylites
	19	Prob. Fabrication	200 x 105	Twin Cabled Monitor
	20	Storage	100 x 80	Twin Cabled
	21	Fabrication	315 x 60	Flat Monitor
			185 x 60	
	22	Storage	330 x 35	Cabled
	23	Prob. Mold Loft	350 x 80	Arched Monitor
	24	Fabrication and Assembly	750 x 390	Arched Monitor
	25	Prob. Machine Shop	390 x 85	Flat
			180 x 60	
	26	Prob. Machine Shop	340 x 85	Flat
	27	Poss. Storage	100 x 50	Flat
	28	Prob. Storage	140 x 30	Cabled and Flat
	29	Prob. Storage	150 x 50	Cabled
	30	Poss. Fabrication	215 x 115	Flat Monitor
	31	Prob. Machine Shop	280 x 220	Flat Monitor
	32	Prob. Fabrication/1st floor	430 x 110	Flat and Arched
	33	Poss. Mold Loft/2nd floor.	415 x 70	Arched
	34	Prob. Fabrication	215 x 125	Flat Monitor
			60 x 50	
	35	Prob. Machine Shop	105 x 95	Twin Cable with Skylites
	36	Personnel Housing	600 x 45	Cabled
	37	Prob. Forge/Foundry	140 x 85	Cabled Monitor
	38	Poss. Structural Design	135 x 50	Flat
			40 x 20	
	39	Poss. Structural Design	90 x 70	Triple Cabled
	40	Poss. Structural Design	185 x 35	Flat
	41	Prob. Machine Shop	280 x 240	Flat and Cable
A1		Open Assembly	225 x 105	
A2		Open Assembly	325 x 105	

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Area Location	Bldg No	Function	Dimensions	Remarks
A3		Open Assembly	555 x 105	
A4		Open Assembly	370 x 100	
B1		Building way		Width measured from craneway F2 to N. edge of B1
B2		Building way	580 x 120	Width measured from craneway F2 to craneway F3
B3		Building way	580 x 115	Width measured from craneway F3 to craneway F4
B4		Building way	350 x 120	Width measured from craneway F4 to craneway F5
C1		Launching system		Vessels crane launched
C2		Launching system		End launched
C3		Launching system		End launched
C4		Launching system		End launched
D1		Poss. Fitting out Quay	750 linear feet	
D2		Fitting out and Prob. Off loading mole/pier	2350 linear feet	
D3		Poss. Fitting out Quay	280 linear feet	
E1		Graving Dock	560 x 105	
E2		Graving Dock	450 x 80	
F1		Rail Craneway	At least 850 x 25	
F2		Rail Craneway	1020 x 35	
F3		Rail Craneway	1170 x 35	
F4		Rail Craneway	1170 x 35	
F5		Rail Craneway	870 x 25	
F6		Rail Craneway	375 x 40	

25X1D

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25X1D

Table 2

Location by Functional Area	Vessel No.	Type	Class	Dimension	Configuration	No. of Hatches	Status
D1	1	Tug Boat					
	2	Prob. Floating Cranes					
	1	Lighter					
D2	1	Merchant		380 x 50	MFM	4	Fitting Out
	1	Merchant		435 x 55	MFFM	4	Fitting Out
	1	Merchant		435 x 60	MMFM	4	Fitting Out
	1	Merchant		435 x 60	MMFM	4	Fitting Out
	1	Merchant		550 x 80	MMFMM	4	Fitting Out
	4	Tug Boats					
	1	Prob. Floating Crane					
	2	Unidentified		70 x 20	N/A	N/A	Undetermined
	1	Unidentified		40 x 10	N/A	N/A	Undetermined
B1	2	Unidentified Hulls		70 x 20	N/A	N/A	Under construction
B2	1	Merchant		550 x 80	MMFMM	5, 1 poss.	Under construction
B3							Shed-covered
B4	1	Merchant		390 x 50	MFM	4	Under construction
At end of craneway(F5)	2	Lighters					
E1	1	Merchant		435 x 60	MMFM	4	Fitting Out and Under repair
	1	Unidentified		25X1D	N/A	N/A	Under construction/repair
	1	Unidentified			N/A	N/A	Under construction/repair
E2	1	Merchant		320 x 35	Undetermined	4	Under construction
	1	Unidentified Hull		120 x 20	N/A	N/A	Under construction
At end of craneway(F6)	1	Prob. Tug boat					
D3	1	Prob. Tanker		345 x 55	Undetermined	N/A	Fitting Out
	1	Poss. OPF		230 x 30	N/A	N/A	Under repair
	1	Poss. Tug boat					

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25X1D

Location by Functional Area	No.	Vessel Type	Class	Dimension	Configuration	No. of Hatches	Status
D1	2	Tug boats					
	2	Utility barges					
	1	Poss. Small tanker		125 x 20	Undetermined	N/A	Undetermined
	2	Unidentified	25X1D	130 x 25	N/A	N/A	Undetermined
	2	Unidentified		[redacted]	N/A	N/A	Undetermined
D2	1	Merchant		295 x 50	MFMM	4	Off loading
	1	Merchant		435 x 65	MMFM	4	Fitting out
	1	Merchant		550 x 80	MMFMM	4	Fitting out
	1	Gordyy	ODD				Undetermined
	2	Prob. Floating Cranes					
	1	Tug boat					
	1	Dredge					
	2	Unidentified		70 x 20	N/A	N/A	Undetermined
B1	2	Unidentified Hulls		70 x 20	N/A	N/A	Under construction
B2	1	Merchant		550 x 80	MMMFMM	5, 1 poss.	Under construction
B3	1	Unidentified		Undetermined	Undetermined	Undetermined	Shed-covered security screens
At end of craneways							
F3 & F4	1	Merchant		435 x 60	MFMM	4	Fitting out
	1	Merchant		490 x 60	MMMFM	5	Fitting out
	1	Merchant		490 x 60	MMFM	5	Fitting out
	1	Tug boat					
	1	Floating crane					
B4	1	Merchant		390 x 50	MFM	4	Under construction
E1	1	Merchant		435 x 60	MMFM	4	Fitting out
	1	Unidentified	25X1D	[redacted]			Under construction/repair
	1	Unidentified					Under construction/repair
E2	1	Poss. OPF		230 x 30			Under repair
	1	Unidentified		120 x 20			Under construction
D3	1	Prob. Tanker		345 x 55	MF	N/A	Fitting out
	1	Unidentified	25X1D	[redacted]	N/A	N/A	Undetermined
	1	Unidentified			N/A	N/A	Undetermined
	1	Unidentified		210 x 15	N/A	N/A	Undetermined
At end of craneway(F6)	1	Prob. Tug boat					
	1	Utility barge					

Location by Functional Area	Vessel No.	Type	Class	Dimension	Configuration	No. of Hatches	Status
D1	1	Merchant		250 x 35	KKFK	4	Undetermined
	8	MK-6	LCM		N/A	N/A	Fitting out
	2	Tug boats					
	1	Poss. Small Tanker		125 x 20	MF	N/A	Undetermined
	5	Utility Barges					
	1	Lighter					
	1	Floating Crane					
	2	Unidentified		130 x 25	N/A	N/A	Undetermined
	2	Unidentified	25X1D	[redacted]	N/A	N/A	Undetermined
D2	1	Merchant		290 x 50	MFMM	4	Off loading
	1	Merchant		290 x 50	MFMM	4	Off loading
	1	Merchant		435 x 60	MMFM	4	Off loading/Fitting out
	1	Merchant		435 x 60	MMFM	4	Off loading/Fitting out
	1	Merchant		550 x 75	MMFMM	5, 1 poss.	Fitting out
	1	Merchant		435 x 60	MMFM	4	Fitting out
	1	Merchant		435 x 60	MMFM	4	Fitting out
	1	Merchant		230 x 40	MF	Undetermined	Undetermined
	3	Utility barges					
	3	Unidentified		70 x 20	N/A	N/A	Undetermined
B1							Vacant
B2	2	Shanghai	PTF		N/A	N/A	Under construction
	1	Prob. Shanghai	PTF		N/A	N/A	Under construction
	2	MK-6	LCM		N/A	N/A	Under construction
	2	Tug boats					Under construction
B3	1	Poss. SSB	"G"				Under construction
At end of craneway(F4)	1	Tug boat		25X1D			
	2	Prob. Kronshtadt	PC	[redacted]			Under repair
	1	Unidentified		165 x 25			Under repair
B4	1	Merchant		390 x 50	MFM	4	Under construction
E1	1	Merchant		435 x 60	MMFM	4	Fitting out
	1	Unidentified	25X1D	[redacted]	N/A	N/A	Under construction/repair
	1	Unidentified			N/A	N/A	Under construction/repair
At end of craneway(F5)	1	Unidentified			N/A	N/A	Undetermined
E2	1	Poss. OPF		230 x 30	N/A	N/A	Under repair
	1	Unidentified		120 x 20	N/A	N/A	Under construction

25X1D
Continuation of [redacted]

Location by Functional Area	Vessel No.	Type	Class	Dimension	Configuration	No. of Hatches	Status
D3	1	Floating Crane					
	1	Merchant		300 x 45	MFM	4	Under repair/Fitting out
	1	Merchant		435 x 60	MMFMM	4	Under repair/Fitting out
	1	Merchant		435 x 60	MMFM	4	Under repair/Fitting out
	1	Merchant		435 x 60	MMFM	4, 1 poss.	Under repair/Fitting out
	1	Merchant		435 x 60	MMFM	4	Under repair/Fitting out

Location by Functional Area	Vessel No.	Vessel Type	Class	Dimension	Configuration	No. of Hatches	Status
D1	1	Tug boat					
	3	Floating cranes					
	2	Lighters					
	2	Utility barges					
D2	1	Merchant		290 x 50	MFMM	4	Undetermined
	1	Merchant		290 x 50	MFMM	4	Undetermined
	1	Merchant		385 x 60	MFM	4	Undetermined
	1	Merchant		435 x 65	MMFM	4	Undetermined
	1	Merchant		435 x 65	MMFM	4	Undetermined
	1	Merchant		540 x 80	Undetermined	4	Fitting out
	1	Unidentified		170 x 20	Undetermined	N/A	Undetermined
A1	8	MK-6	LCM		N/A	N/A	Under construction
B1							Vacant
B2	2	MK-6	LCM		N/A	N/A	Under construction
	7	Shanghai	PTF		N/A	N/A	Under construction
	2	Tug boats					Under construction
At end of craneway(F3)	1	Poss OPF		230 x 30	N/A	N/A	Under repair
	2	Unidentified		190 x 20	N/A	N/A	Under repair
	1	Lighter					
B3	1	Prob. SSB	G		N/A	N/A	Under construction
B4							Vacant
E1	1	Merchant		430 x 65	MMFM	4	Fitting out
	1	Unidentified		Undetermined	N/A	N/A	Under repair/Fitting out
	1	Unidentified		Undetermined	N/A	N/A	Under repair/Fitting out
E2	1	Merchant		320 x 45	Undetermined	4	Under repair
D3	1	Merchant		450 x 60	MMFM	4	Undetermined
	1	Merchant		450 x 60	MMFM	4	Undetermined
	1	Merchant		450 x 60	MMFM	4	Undetermined
	1	Lighter					

Location by Functional Area	Vessel No.	Type	Class	Dimension	Configuration	No. of Hatches	Status
D1	8	MK-6	LCM		N/A	N/A	Fitting out
	2	Prob. MK-6	LCM		N/A	N/A	Fitting out
	1	Small tanker		135 x 30	MF	N/A	Undetermined
	1	Prob. Floating crane					
	1	Lighter					
	2	Utility barges					
	3	Motorized crane boats		90 x 30	N/A	N/A	Undetermined
D2	1	Prob. Small tanker		190 x 35	MF	N/A	Undetermined
	1	Merchant	25X1D	[redacted]	MMFM	4	Off loading
	3	Floating Crane					
	1	Unidentified		60 x 15	N/A	N/A	Undetermined
	2	Utility barges					
	6	Tug boats					
	2	Gordyy	ODD		N/A	N/A	Undetermined
	1	Shanghai	PTF		N/A	N/A	Fitting out
North side of Pier No. 4	1	SSB	G		N/A	N/A	Fitting out
B1	9	Prob. MK-6	LCM		N/A	N/A	Under construction
B2	8	Shanghai	PTF		N/A	N/A	Under construction
	1	Tug boat					Under construction
At ends of craneway F3 & F4	1	SS	W		N/A	N/A	Under repair
B3	3	Shanghai	PTF		N/A	N/A	Under construction
	3	Prob. Tug boats					Under construction
	1	Unidentified hull section		70 x 25	Undetermined	Undetermined	Under construction
	1	Prob. Tug boat					Under construction
	1	Unidentified hull section		35 x 35	Undetermined	Undetermined	Under construction
	1	Poss. Motorized crane boat		90 x 30	N/A	N/A	Under construction
At end of craneway(?5)	2	Tug boats					
	2	Motorized crane boats		90 x 30	N/A	N/A	Fitting out
E1							Vacant
E2							Vacant

Continuation of [redacted] 25X1D

Location by Functional Area	Vessel No.	Vessel Type	Vessel Class	Dimension	Configuration	No. of Hatches	Status
D3	1	Corodyy	ODD		N/A	N/A	Under repair
	1	Merchant		435 x 60	MFM	4	Prob. Under repair
	1	Floating Dry Dock		190 x 80	N/A	N/A	
	1	Tug boat					
	1	Lighter					

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Location by Functional Area	Vessel No.	Type	Class	Dimension	Configuration	No. of Hatches	Status
D1	10	Prob. MK-6	LCM		N/A	N/A	Fitting out
	4		Poss. LCVP	60 x 15	N/A	N/A	Fitting out
	1	Small tanker		135 x 30	MF	N/A	Undetermined
	3	Motorized crane boats		90 x 30	N/A	N/A	Undetermined
	2	Floating cranes					
	1	Tug boat					
	1	Lighter					
	4	Unidentified		70 x 10	N/A	N/A	Undetermined
D2	3	Cordyy	ODD		N/A	N/A	Undetermined
	1	SS	W		N/A	N/A	Under repair
	3	Shanghai	PTF		N/A	N/A	Fitting out
	1	Floating dry dock		190 x 80			
	3	Tug boats					
	1	Floating crane					
	1	Utility barge					
North side of Pier No 4	1	SSB	G		N/A	N/A	Fitting out
B1							Vacant
B2	4	Shanghai	PTF		N/A	N/A	Under construction
	1	Tug boat					Under construction
At end of craneway(F3)	5	MK-6	LCM		N/A	N/A	Fitting out
B3	5	Prob. Shanghai	PTF		N/A	N/A	Under construction
	4	Prob. tug boats					Under construction
At end of craneway(F4)	1	Tug boat					
	2	Unidentified		75 x 15	N/A	N/A	Undetermined
	1	Lighter					
B4	2	Merchant hull sections		95 x 35 fwd 120 x 35 aft	Undetermined	Undetermined	Under construction
At end of craneway(F5)	2	Motorized crane boats		90 x 25	N/A	N/A	Fitting out
	3	Tug boats					
	1	Lighter					
E1	1	Merchant		410 x 60	MMFM	4	Under repair
	1	Unidentified		120 x 25	N/A	N/A	Under repair
	1	Unidentified		90 x 20	N/A	N/A	Under repair
E2	1	Small tanker		135 x 35	FM	N/A	Under repair
D3	1	Large tanker		350 x 50	FM	N/A	Under repair

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LU-TA SHIPYARD

NEW CONSTRUCTION

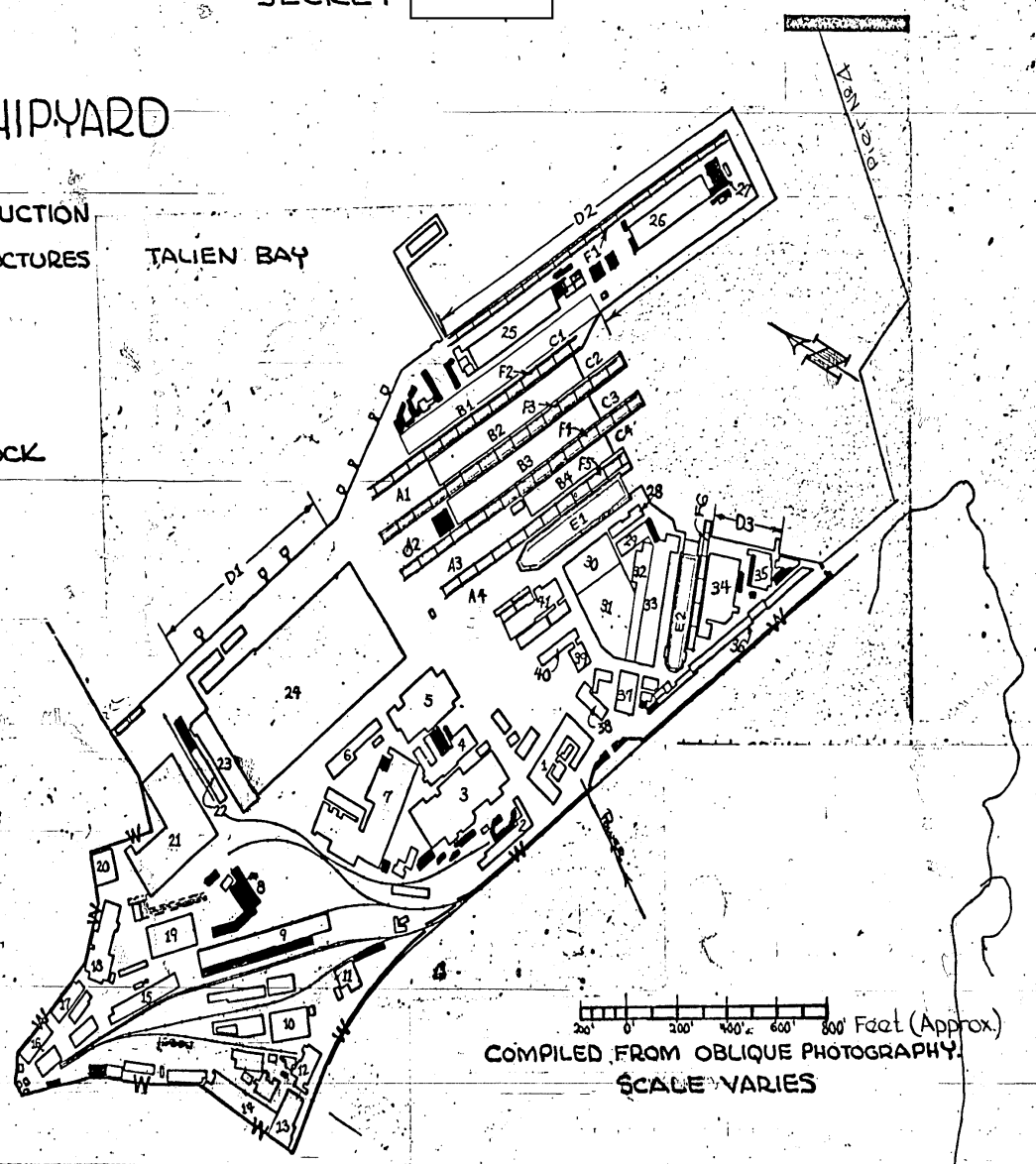
RAZED STRUCTURES

CRANEWAY

WALL

GRAVING DOCK

RAILROAD



200' 0' 200' 400' 600' 800' Feet (Approx.)

COMPILED FROM OBLIQUE PHOTOGRAPHY.

SCALE VARIES

FIGURE 2 OF 2

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* PRODUCTION COPY
ONE OF [illegible] OF 10

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SECRET [redacted]

References

25X1D [redacted]

Maps:

US Air Target Chart, DIA Series 200, Sheet 0381-10HL, 2nd ed., Aug. 1963 (SECRET)

Port Plan 21143, ONI, June 1958 (SECRET)

DIA Town Plan 39872, April 1964 (SECRET)

Documents: 25X1C [redacted]

Requirement:

[redacted] Partial answer

Project:

NPIC 12037-4

SECRET [redacted]

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